13 May 1959

MEMORA HOUSE	19/100	APPER 18	MEGONIA
		2 (3.22)	

SUBJECT :	Aircraft Door Modification,	Power Assist	
REFERENCE:	Nemorandum for	, a	25X1A
			25X1A

- 1. A feasibility study for power operation of the inward opening cargo doors (0-54) has been conducted on a cursory basis and budgetary quotations submitted. A mechanical and electrical system were investigated.
- 2. The cost differential between an electrical vs. a mechanical system is approximately 3 to 1 for the prototype model. Programming is estimated at a minimum of three menths for the electrical system and one month for the mechanical assist.

25X1A

25X1A

- Mechanical assist could be readily installed in the field if necessary. The undersigned cautioned against such an approach on the grounds that unless a sound engineering approach is contemplated, a "Jury Rig" could create torsional forces not anticipated in the door design. However, a "Jury Rig" could probably be used on a very limited basis, keeping in mind the door tracking relationship of guide rollers, track, and roller brackets.
- 5. The existing prototype door, with proposed modifications, will be service tested for six (6) months to determine component wear and serviceability prior to fabrication of production models.
- 6. From the experience gained during the installation, it is recommended that future installation of the inward opening cargo doors be conducted by the contractor in this country. Initially it was conceived that the door modification be fabricated and issued in a kit form for field installation. Due to the complexity of the installation and personnel situation in the field the kit form approach is not feasible.

25X1

STATE

OT THE

- 7. A more positive emergency exit is desired for the protetype inward opening door system. Pursuant to the April 29 meeting with DFD, the warrhead inward opening rear cargo door will be replaced with an autward opening hinged door. The hinged rear door will serve as the ground exit and entrance to the aircraft and will also serve as the emergency exit. The rear door will be designed for opening either inside or outside the aircraft. An emergency release mechanism will allow for inflight and ground jettison. The original cargo doors will be used for salvage parts and to aid in fabrication.
- 8. The aircraft is to be made available at Friendship Airport for installation of the emergency release rear door by 25 May or before. The estimated installation completion date has been set as 27 May 1959. (Correction to Memorandum DFD-3121-59/May 1959 paragraph 3 A). The aircraft availability period was coordinated with by telephone.

25X1A

25X1

9. TSS/ED was requested verbally by DFD/OFS to investigate the feasibility of utilizing the sliding TWA deer (TO-16-1216-9) for inflight operation. Arrangements were made by DFD to visit Mational Airport (MATS) and examine the sliding deer of a C-121. At present TSS/ED is having a feasibility study made.

			25X1A
		He control of the con	
:mt	25X1A		
ce:			

CLOSE